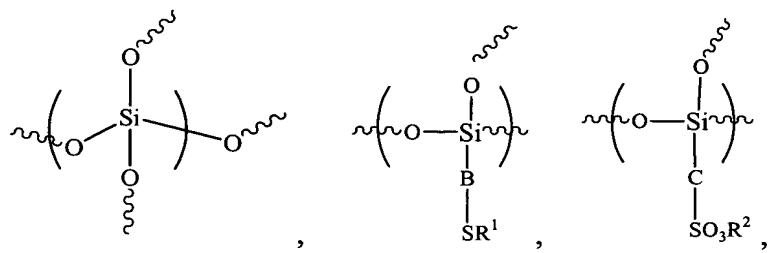


FUNCTIONALIZED ZEOLITE COMPOSITIONS AND METHODS FOR
THEIR PREPARATION AND USE

ABSTRACT OF THE DISCLOSURE

[0078] Disclosed herein are zeolite compositions comprising structural units of the formulae:



wherein “B” and “C” are spacer groups comprising C_2 to C_{20} hydrocarbyl groups; and R^1 and R^2 independently of each other comprise alkali metal, hydrogen, or C_1 to C_{20} alkyl groups. The zeolite compositions further comprise structural units derived from a heteropolyacid compound of the formula: $(M^3)_3(M^4)(M^5)_{12}O_{40}$; where M^3 comprises hydrogen or an alkali metal; M^4 comprises phosphorus or silicon, and M^5 comprises tungsten or molybdenum. Methods for preparing these zeolite compositions are also disclosed. The zeolite compositions are useful as catalysts for producing bisphenols.